

POLTORANIN, G.
POLTORANIN, G.; ZAYTSEV, A.

Results of examining repaired engine mounts. Grazhd.av. 14
no.9:28-29 S '57. (MIRA 10:10)
(Airplanes--Maintenance and repair)

IL'ICHEVA, Ye.M., nauchn. sotr.; SHVARTS, Yu.N., nauchn. sotr.;
KURASHOV, S.V., red.; GOL'DFAYL', L.G., red.; POSPELOVA,
G.N., red.; Prinimali uchastiye: BAKHMETI, V.I., kand. khim.
nauk, red.; IVANOV, V.V., kand. med. nauk, red.; KARAYEV,
R.G., kand. med. nauk, red.; LARICHEV, L.S., red.; NEVIANEV,
G.A., red.; OPPENGEYM, D.G., kand. med. nauk, red.;
POLTORANOV, V.V., red.; CHUBUKOV, L.A., doktor geogr. nauk,
red.; VUL'FSON, I.Z., red.; KUZMAINA, N.S., tekhn. red.

[Health resorts of the U.S.S.R.] Kurorty SSSR. Moskva, Medgiz,
1962. 797 p. (MIRA 15:11)

(HEALTH RESORTS, WATERING PLACES, ETC.)

POLTORANOV, V.V.

All-Union Conference of the Workers's Group in Sanatoriums and Health
Resorts and Rest Homes of the Trade Unions. Vop. kur., fizioter. i
lech. fiz. kul't. 26 no.3:276-277 My-Je '61. (MIRA 14:7)
(THERAPEUTICS, PHYSIOLOGICAL)

KOMISSAROVA, Margarita Gur'yevna; POLTORANOV, Vladimir Vladimirovich;
SLUTSKIY, Semen Yakovlevich; KOZLOV, I.I., red.; BLOKHIN, N.N.,
red.; ANDREYEVA, L.S., tekhn. red.

[Health resorts of trade unions in the U.S.S.R.] Zdravnitsy
profsoiuzov SSSR; spravochnik. Moskva, Izd-vo VTsSPS Prof-
izdat, 1962. 494 p. (MIRA 15:3)
(HEALTH RESORTS, WATERING-PLACES, ETC.)
(INDUSTRIAL RECREATION)

GLUKHOVSKIY, Viktor Dmitriyevich; GOGLYUVATYY, Oleg Dem'yanovich;
PASHKOV, Igor' Aleksandrovich; POLTORATSKAYA, E., red.;
IOAKIMIS, A., tekhn.red.

[Precast reinforced concrete in industrial construction]
Sbornyi zhelezobeton v promyshlennom stroitel'stve. Kiev,
Gos. izd-vo lit-ry po stroit. i arkhitekt. USSR, 1958. 467 p.
(MIRA 12:2)

(Precast concrete construction)

LIKHTARNIKOV, Yakov Moiseyevich, kand.tekhn.nauk,dots.; POLTORATSKAYA,E.,
red.; ZELENKOVA, Yu., tekhn. red.

[Economics of steel construction] Ekonomika stal'nykh konstruksii.
Kiev, Gosstroizdat USSR, 1962. 178 p. (MIRA 15:7)
(Building, Iron and steel--Estimates and costs)

KHMELYUK, Konstantin Dem'yanovich, kand. tekhn. nauk; DUZHKIN, Nikolay Nikolayevich; LOBAYEV, B.N., doktor tekhn. nauk, prof., red.; POLTORATSKAYA, E., red.; LEUSHCHENKO, N., tekhn. red.

[Heat and mass exchange in the exterior elements of apartment houses] Teplomassobmen v ogradaiushchikh konstruktsiakh zhilykh zdanii. Pod red. B.N.Lobaeva. Kiev, Gosstroizdat, 1962. 93 p. (MIRA 15:12)

(Apartment houses) (Heat--Transmission)
(Mass transfer)

LOZOVY, Aleksandr Vladimirovich; LUTSENKO, Vladimir Arsent'yevich;
NESTEROVICH, Nikolay Faddeyevich; TRUBIN, Mikhail Ivanovich;
ORLOV, A.I., red.; POLTORATSKAYA, E., red.; ZELENKOVA, Ye.,
tekhn. red.

[Principles of sanitary engineering] Osnovy sanitarnoi tekhniki.
[By] A.V.Lozerovoi i dr. Kiev, Gosstroizdat USSR, 1962. 150 p.
(MIRA 15:7)

(Sanitary engineering)

SHCHEKIN, Rostislav Vladimirovich; BEM, Georgiy Yevgen'yevich;
POLTORATSKAYA, E., red.; ADAMCHUK, A.A., tekhn.red.

[Hot-water heating] Vodiane otopenie. Kiev, Gos.izd-vo
lit-ry po stroit. i arkhitekt. USSR, 1960. 106 p.

(MIRA 13:12)

(Hot-water heating)

BAKLANOV, Grigoriy Mitrofanovich; POLTORATSKAYA, E., red.; KOVAL'CHUK, G.,
tekhn.red.

[Cement industries of the Ukraine in the seven-year plan]
TSementnaia promyshlennost' Ukrainy v semiletke. Kiev, Gos.izd-vo
lit-ry po stroit. i arkhitekt. USSR, 1960. 58 p. (MIRA 14:1)
(Ukraine--Cement industries)

TORYANIK, Mikhail Stepanovich, dotsent, kand.tekhn.nauk; POLTORATSKAYA, E.,
red.; BOYKO, V., tekhn.red.

[Diagonal eccentric compression and diagonal flexure in reinforced
concrete] Kosoe vnetsentrennoe szhatie i kosoi izgib v zhelezo-
betone. Izd.2. perer. i dop. Kiev, Gos.izd-vo lit-ry po stroit.
i arkhitekt. USSR, 1961. 155 p. (MIRA 14:4)
(Reinforced concrete construction)
(Strains and stresses)

CHERKASOV, Nikolay Antonovich, kand. tekhn. nauk; POLTORATSKAYA, E., red.
PODOL'SKAYA, P., tekhn. red.

[Masonry and facings] Kamennye i oblitsovochnye raboty. Izd.2., dop.
i perer. Kiev, Gos.izd-vo lit-ry po stroit. i arkhit. USSR, 1961.
366 p. (MIRA 14:6)

(Masonry)

SADOVNIKOV, Ivan Stepanovich; IVANOV, Vyacheslav Alekseyevich;
BAUMAN, V.A., kand.tekhn.nauk, red.; POLTORATSKAYA, E., red.;
ZELENKOVA, Ye., tekhn.red.

[Building tools; a manual] Stroitel'nye instrumenty; spravochnoe posobie. Kiev, Gos.izd-vo lit-ry po stroitel'stvu i arkhitekture USSR, 1960. 131 p. (MIRA 13:5)
(Building--Tools and implements)

GLUKHOVSKIY, Viktor Dmitriyevich, inzh.; POLTORATSKAYA, E., red.;
NEMCHENKO, I., tekhn.red.

[Soil silicates] Gruntosilikaty. Kiev, Gos.izd-vo lit-ry
po stroit. i arkhit.USSR, 1959. 125 p. (MIRA 12:10)
(Silicates)

LOBAYEV, Boris Nikitich; ZAYCHENKO, R., red.; POLTORATSKAYA, E., red.;
NEMCHENKO, I., telhn.red.

[Designing air ducts, compressor plants, and ventilation and
pneumatic transportation systems] Raschet vozdukhoprovodov
ventiliatsionnykh, kompressornykh i pnevмотransportnykh ustanovok.
Kiev, Gos.izd-vo lit-ry po stroit. i arkhitekt.USSR, 1959. 196 p.
(MIRA 12:11)

(Pneumatic-tube transportation) (Ventilation) (Compressors)

PAKHOMOV, Petr Aleksandrovich; POLTORATSKAYA, E., red.; GRISHKO, T.,
tekhn.red.

[Eliminating air from hot-water heating systems] Vozdukhoda-
lenie iz sistem vodianogo otopeniia, Kiev, Gos.izd-vo lit-ry
po stroit. i arkhitekt. USSR, 1962. 58 p. (MIRA 1525)
(Hot-water heating)

PLEKHOV, N.D.; LUPAN, A.M.; ABRAMOV, L.S.; BOGDANOVSKIY, V.S.;
REZNICHENKO, V.I.; GREKOVA, Z.I.; GOLUB, P.I.;
ENDRZHEYEVSKIY, Ye.V.; BELOSHKURSKIY, P.I.; PODDUBNAYA,
N.A.; MIROSHNIKOV, P.P.; KORNEYEVA, L.P.; ZLOTNIKOV,
G.Z.; PAVLIS, G.F.; SKACHKOV, I.A.; SEDELEVA, Ye.P.;
POLTORATSKAYA, E.A., red.; LEUSHCHENKO, N.L., tekhn.red.

[Three-dimensional apartment house construction] Ob"emnoe
domostroenie. Kiev, Gosstroizdat USSR, 1963. 165 p.

(MIRA 17:2)

1. Nauchno-issledovatel'skiy institut stroitel'nykh kon-
struktsiy.

DRANNIKOV, Abram Markovich, prof., doktor geologo-mineralog.nauk;

DRANISHNIKOV, P., spetsred.; ROZHAVINA, A., red.; POLTORATSKAYA,
E., red.; ZELENIKOVA, Ye., tekhn.red.

[Engineering geology] Inzhenernaia geologiya. Kiev, Gos.izd-vo
lit-ry po stroit. i arkhitekt. USSR, 1959. 222 p. (MIRA 12:8)
(Engineering geology)

KLIMANOVA, Yekaterina Antonovna, kand.tekhn.nauk; POLTORATSKAYA, E.,
red.; IOAKIMIS, A., tekhn.red.

[Water glass in the construction industry] Zhidkoe steklo
v stroitel'stve. Kiev, Gos.izd-vo lit-ry po stroit.i arkhit.
USSR, 1959. 65 p. (MIRA 12:8)
(Construction industry) (Soluble glass)

EPSHTEYN, Semuil Aronovich; POLTORATSKAYA, E., red.; NEMCHENKO, I.,
tekhn.red.

[Selecting concrete and mortar mixes] Podbor sostavov betona i
rastvora. Kiev, Gos.izd-vo lit-ry po stroit. i arkhitekt.USSR,
1959. 87 p. (MIRA 13:1)
(Concrete) (Mortar)

SHMUL'SKIY, Markus Davidovich, kand.tekhn.nauk; POLTORATSKAYA, E.,
red.; ZELENIKOVA, Ye., tekhn.red.

[Quality control of precast reinforced concrete construction
elements] Kontrol' kachestva sbornyykh zhelezobetonnykh
konstruktsii. Kiev, Gos.izd-vo lit-ry po stroit. i arkhitekt.
USSR, 1959. 154 p. (MIRA 13:1)
(Precast concrete--Testing)

ANTYUKOV, Boris Yakovlevich; POLTORATSKAYA, E., red.; NARINSKAYA, A.,
khud.-tekhn.red.

[Steel construction units] Stal'nye konstruktsii. Kiev, Gos.
izd-vo lit-ry po stroit. i arkhitekt. USSR, 1960. 233 p.
(MIRA 14:4)

(Steel, Structural)

SHCHEKIN, Rostislav Vladimirovich, kand. tekhn. nauk, dots.; KORENEVSKIY, Sergey Mikhaylovich, kand. tekhn. nauk, dots.; BEM, Georgiy Yevgen'yevich, dots.; ARTYUSHENKO, Mikhail Alipiyevich, inzh.; SKOROKHOD'KO, Fedor Isidorovich, dots.; LOBAYEV, B.N., doktor tekhn. nauk, prof., red.; POLTORATSKAYA, E.A., red.; SURYGINA, E.N., red.; VOLOSHCHENKO, Z.N., red.; LEUSHCHENKO, N.L., tekhn.red.

[Handbook on heating and ventilation in residential and public buildings] Spravochnik po teplosnabzheniiu i ventiliatsii v grazhdanskom stroitel'stve. [By] R.V.Shchekin i dr. 2. izd., perer. i dop. Kiev, Gos.izd-vo lit-ry po stroit. i arkhitekt. USSR, 1962. 1019 p. (MIRA 16:2)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury Ukr. SSR (for Lobayev).

(Heating) (Ventilation)

TEKEL'CHIK, Moisey Solomonovich; POLTORATSKAYA, E.A., red.; LEUSHCHENKO,
N.L., tekhn. red.

[Problems of work and wages in construction] Voprosy truda i za-
rabotnoi platy v stroitel'stve. Izd. 2., perer. i dop. Kiev,
Gosstroizdat USSR, 1962. 207 p. (MIRA 15:7)
(Wages--Constructuion industry)

BELOSTOTSKIY, Oleg Borisovich; KANYUKA, Nikolay Sergeyevich;
SHEVCHUK, Boris Mikhaylovich; GOLOVKO, L.N., red.;
POLTORATSKAYA, E.A., red.; REZNICHENKO, I.Ye., red.;
SURYGINA, E.N., red.

[Concise manual for the master builder] Kratkii spravochnik mastera-stroitelia. Kiev, Budivel'nyk, 1964.
774 p. (MIRA 18:1)

STEFANOV, Boris Vladimirovich; ANTONENKO, Grigoriy Yakovlevich;
MIRSAKOV, L.M., netsenzent; POLTORATSKAYA, E.A., red.

[Organization of the technological processes in precast
reinforced-concrete plants] Organizatsiia tekhnologicheskikh
protsessov na zavodakh sbornogo zhelezobetona.
Kiev, Budivel'nyk, 1965. 80 p. (MIRA 19:1)

ARKAD'YEV, B.A., inzh.; GANNITSA, V.M., inzh.; POLTORATSKAYA, N.B., inzh.

Calculation of the heating of the flange connections of
turbines. Teploenergetika 11 no.4:63-66 Ap '64.

(MIRA 17:6)

1. Khar'kovskiy turbinnyy zavod imeni Kirova.

SRIBNYI, Kuz'ma Feofanovich[Sribnyi, K.F.], kand.tekhn.nauk;
ANDREYEVSKIY, Nikolay Sergeyevich[Andrieievs'kyi, M.S.], inzh.;
POLTORATSKAYA, Ye.[Poltorats'ka, E.], red.; ADAMCHUK, A., tekhn.
red.

[Water supply engineering on collective and state farms of the
Ukraine] Vodohospodars'ke budivnytstvo v kolhozpakh i radhos-
pakh URSR. Kyiv, Derzhbudvydav URSR, 1960. 165 p.

(MIRA 15:7)

(Ukraine---Water supply, Rural)

BRAND, V.E.; GRUTMAN, M.S. [Hrutman, M.S.]; FEL'DSHON, Z.D.; POLTORATSKAYA,
Ye. [Poltorats'ka, E.], red.; IOAKIMIS, A., tekhn.red.

[Reed in rural construction] Komysh v sil's'komu budivnytstvi.
Kyiv, Derzh.vyd-vo lit-ry z budivnytstva i arkhitektury URSR,
1959. 122 p. (MIRA 14:2)
(Reed (Botany)) (Farm buildings)

KUDIN, Sergey Nikolayevich [Kudin, S.M.]; PODGORJNOV, Anatoliy Leonidovich
[Podhorinov, A.L.]; KHILBOCHENKO, Leonid Samsonovich;
POLTORATSKAYA, Ye. [Poltorats'ka, E.], red.; VOLOSHCHENKO, Z., red.;
NARINSKAYA, A. [Narins'ka, A.], tekhn.red.

[Small hydroelectric power stations of the Ukrainian S.S.R.] Mali
hidroelektrostantsii URSS. Kyiv, Derzh.vyd-vo lit-ry z budivnytstva
i arkhitekt. URSS, 1960. 158 p. (MIRA 14:3)
(Ukraine---Hydroelectric power stations)

DIDYK, Vasil'y Petrovich; SHAFRAN, Ivan Stepanovich; POLTORATSKAYA,
E.A., red.

[Manual on repair and construction work in residential and
public buildings] Spravochnik po remontno-stroitel'ny'm ra-
botam v zhilykh i obshchestvennykh zdaniakh. Kiev,
Budivel'nyk, 1965. 486 p. (MIRA 19:1)

L 10469-67 EWT(1)

ACC NR: AP603 023

SOURCE CODE: UR/0109/66/011/009/1589/1592

AUTHOR: Moskvitin, L. L.; Poltoratskiy, B. F.

24
23

ORG: none

TITLE: Effect of saturation in quantum paramagnetic amplifiers on their phase characteristics

SOURCE: Radiotekhnika i elektronika, v. 11, no. 9, 1966, 1589-1592

TOPIC TAGS: quantum device, quantum amplifier, paramagnetic amplifier

ABSTRACT: The results are reported of a theoretical investigation of the effect of saturation on phase characteristics in quantum paramagnetic TW amplifiers and resonator reflex-type amplifiers. A relation is found between the amplifier phase shift and its resonance gain, the latter being connected with the input power (see Rad. i elektronika, 1964, 9, 12, 2105). It is found that, with a detuning nearing

Card 1/2

UDC: 621.385.6:621.375

L 10469-67

ACC NR: AP6031023

the transmission band and an input-to-saturation power ratio between -5 and +30 db, the phase-shift vs. input-power curves for both types of amplifier are about the same, having a slope of 15-20 mrad/db. For input powers that are equal to 0.1-1000 saturation power, the overall phase shift may reach 0.8 rad. For ratios of 15-20 db, the curve slope depends but little on the initial gain; it is largely determined by the relative detuning of the channel. "In conclusion, the authors wish to thank N. V. Karlov for his discussions and useful suggestions." Orig. art. has: 2 figures and 13 formulas.

SUB CODE: 20, 09 / SUBM DATE: 15May65 / ORIG REF: 004 / OTH REF: 001

Card 2/2 egk

I 58406-65 EWT(1)/EWT(m)/EWG(m)/T/EWP(t)/EWP(b)/EWA(h) Pz-6/Psb IJP(c) RDW/
ACCESSION NR: AP5017331 JI/JG/AT UR/0181/65/007/007/2231/2232

AUTHOR: Poltoratskiy, E. A.; Stuchebnikov, V. M.; Yunovich, A. E.

TITLE: Coherent radiation of a GaAs p-n junction²¹ obtained by diffusion of beryllium

SOURCE: Fizika tverdogo tela, v. 7, no. 7, 1965, 2231-2232

TOPIC TAGS: laser, semiconductor laser, junction laser, injection laser, injection diode, GaAs laser, beryllium doped laser

ABSTRACT: A beryllium-doped pulsed GaAs p-n junction laser which operates at 77K is described. GaAs doped with tellurium with an electron concentration of $1-3 \times 10^{18} \text{ cm}^{-3}$ served as the initial material. Beryllium was diffused from a spray-coated film at 930C during a 13-hour period. The depth of the p-n junction was 45 μ . (The properties of the junction and its depth varied with the properties of the film). The diodes were fabricated by the usual method. The Fabry-Perot and triangular cavities were prepared by cleaving. The duration of the pulses was 2.5 μsec and the repetition rate 50 cps. The area of the p-n junction of the triangular diode was $2.8 \times 10^{-3} \text{ cm}^2$. A narrow peak of coherent radiation was observed at the threshold. As the current was increased, additional peaks appeared in the spectrum. The threshold current density and the directionality of Be-doped lasers are similar to those of Zn-doped GaAs injection diodes. Orig. art. has: 2 figures.

Card 1/2

[CS]

L 58406-65

ACCESSION NR: AP5G17331

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. Lomonosova (Moscow State University)

SUBMITTED: 15Feb65

ENCL: 00

SUB CODE: ECSS

NO REF SOV: 001

OTHER: 001

ATD PRESS: 4042

Card 2/2 d/p

L 23150-66 EWT(m)/EWP(t) IJP(c) JD
 ACC NR: AP6006844 SOURCE CODE: UR/0181/66/008/002/0546/0551
 AUTHOR: Ormont, A. B.; Poltoratskiy, E. A.; Yunovich, A. E.
 ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy uni-
 versitet)
 TITLE: Low-current radiative recombination at *pn* junctions in gallium arsenide
 SOURCE: Fizika tverdogo tela, v. 8, no. 2, 1966, 546-551
 TOPIC TAGS: semiconductor diode, gallium arsenide, radiative recombination,
 beryllium, zinc, *pn* junction, emission spectrum, metal diffusion
 ABSTRACT: The authors compared emission spectra at *pn* junctions in gallium arsenide
 produced by diffusion of beryllium and zinc into the *n*-GaAs with a donor concentra-
 tion of 10^{16} to $3 \cdot 10^{18} \text{ cm}^{-3}$. The measurements were made at temperatures of 77,
 188 and 293°K and current densities of 0.1-30 a/cm². The emission spectra at 77°K
 showed maxima with energies of 1.0, 1.3 and 1.47 ev. The positions and intensities
 of these maxima depend on the dopant concentration in the initial material and the
 method used for producing the *pn* junction. The energy position of the shortwave
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L 23150-66

ACC NR: AP6006844

peak is a linear function of the applied voltage in the 1.25-1.47 v range for im-
purity concentrations of more than $8 \cdot 10^{17} \text{ cm}^{-3}$ at a temperature of 77°K. A rela-
tionship is found between the emission spectra and current voltage characteristics
of the diodes. The authors are grateful to V. L. Bonch-Bruyevich for discussing
the results, to V. S. Vavilov for interest in the work, and V. M. Stuchebikov for
assistance with the experiments. Orig. art. has: 4 figures.

SUB CODE: 20,09/ SUBM DATE: 16Jun65/ ORIG REF: 009/ OTH REF: 010

Card 2/2

1 64152-65 EWA(k)/FBD/EWG(-)/EWT(1)/EWT(m)/EEC(k)-2/T/EWP(t)/EEC(b)-2/
 ACCESSION NR: EWP(k)/EWP(b)/EWA(m)-2/EWA(h) SCTB/LIP(c) WG/JD
 AP5020743 UR/0057/65/035/008/1516/1521
 535.37

AUTHOR: Poltoratskiy, E. A. 44; Stuchebnikov, V. M. 44; Yunovich, A. E. 44

TITLE: Coherent emission of radiation from GaAs luminescent diodes with triangular cavity

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 35, no. 8, 1965, 1516-1521

TOPIC TAGS: laser, semiconductor laser, coherent radiation, GaAs, GaAs laser, laser cavity, junction laser

ABSTRACT: Coherent emission of radiation was obtained in GaAs diodes operating at liquid nitrogen temperature with the resonant structure in the form of equilateral triangular prisms. The p-n junction parallel to the base was formed in the (111) plane. The diodes were fabricated by cleaving along the (110) planes. The sides of the triangles were 0.4-0.7 mm long and the junction area was $1.2-2.2 \cdot 10^{-3} \text{ cm}^2$. The threshold current density and the power output of triangular diodes are of the same order of magnitude as those of the Fabry-Perot junction laser. However, emission of stimulated radiation takes place at lower currents (30 amp). Orig. art. has: 4 figures. [CS]

Cord 1/2

64152-65	
ACCESSION NR: AP5020743	
ASSOCIATION: Moskovskiy gosudarstvennyy universitet, Fizicheskiy fakul'tet (Moscow State University, Physics Faculty) 44	
DATE: 20 Jul 64	ENCL: 00
REF. NO: 006	SUB CODE: EC, SS
	OTHER: 009
	ATD PRESS: 4065
Card 2/2	

L 25469-66 EWT(m) JD/JG

ACC NR: AF6009696

SOURCE CODE: UR/0181/66/008/003/0963/0965

AUTHOR: Poltoratskiy, E. A.; Stuchebnikov, V. M.

ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy uni-versitet)

TITLE: Diffusion of beryllium in gallium arsenide

SOURCE: Fizika tverdogo tela, v. 8, no. 3, 1966, 963-965

TOPIC TAGS: gallium arsenide, beryllium, physical diffusion, hole mobility, carrier density

ABSTRACT: The diffusion was investigated in n-type gallium arsenide with 3×10^{17} - $4 \times 10^{18} \text{ cm}^{-3}$ electrons. The samples were oriented in the (111) plane and the beryllium was sputtered in vacuum better than 10^{-4} mm Hg on a polished or etched surface. The diffusion annealing took place in sealed quartz ampoules at 880--990C. The distribution of the acceptor concentration after the diffusion was investigated by successive removal of layers. The data of C. H. Good (Phys. Lett. 14, 183, 1965) were assumed for the mobility of the holes as a function of the acceptor density. The results show that when the initial concentrations are $\leq 1.5 \times 10^{18} \text{ cm}^{-3}$ the penetration curves approximate the error function. At larger concentrations, especially after prolonged annealing, allowance must be made for the decomposition of the material. The results also show that the surface concentration of Be in GaAs is $(1-3) \times 10^{19} \text{ cm}^{-3}$. At low densities the diffusion coefficient is given by

Card 1/2

Card 2/2 CV

POLTORATSKIY, G.M.; MISHCHENKO, K.P.

Demixing of electrolyte solutions. Zhur. fiz. khim. 39 no. 1:
264 Ja '65 (MIRA 19:1)

1. Leningradskiy tekhnologicheskii institut. Submitted May 23,
1964.

POLTORATSKIY, I.L.

Functional state of the sympathico-adrenal system i goiter.
Vrach. delo no.7:140-141 J1'63. (MIRA 16:10)

1. Kafedra fakul'tetskoy khirurgii (zav. - prof. G.G.Karavanov)
L'vovskogo meditsinskogo instituta.
(GOITER) (NERVOUS SYSTEM, SYMPATHETIC)
(ADRENALINE)

POLTORATSKIY, N.G.; ACHERKAN, N.S., doktor tekhn. nauk, prof., red.

[Manual for machine-tool receivers] Spravochnik priemshchika
stankov. Izd.3., perer. Pod red. N.S.Acherkana. Moskva,
Vneshtorgizdat, 1962. 740 p. (MIRA 15:11)
(Machine tools)

ACC NR: AP6021526 SOURCE CODE: UR/0089/66/020/006/0409/0494

AUTHOR: Ignat'yev, B. G.; Nezhevenko, L. B.; Kovalev, A. V.;
Poltoratskiy, N. I.; Fomin, G. S.; Yakutovich, M. V.

ORG: none

TITLE: Production of thin plate from refractory carbides

SOURCE: Atomnaya energiya, v. 20, no. 6, 1966, 489-494

TOPIC TAGS: zirconium, zirconium carbide, ~~powder~~ carbide, ~~powder~~ metal
~~carbide~~ extrusion, ~~powder~~ ~~carbide~~ rolling, ~~extruded~~ thin plate ~~density~~,
~~rolled thin plate density~~

ABSTRACT: Two methods of producing dense, thin plate from zirconium-carbide powder have been investigated: 1) hot extrusion with subsequent high-temperature sintering with various surface-active additives; 2) rolling zirconium-carbide powder into plate and subsequent sintering. A mixture of the powders of zirconium-carbide and metallic zirconium (15 wt.%) plasticized with a 3% solution of rubber in 3-chlorethylene was extruded under a specific pressure of 1.5—3.0 t/cm² into plate which was sintered at 2100—2500C for up to 3 hr. Tests showed that the powder fineness, specific extrusion pressure, and temperature and duration of sintering had only a slight effect on the final product

Card 1/2

UDC: 621.762.546.261

IGNAT'YEV, B. G.; NEZHEVENKO, L. V.; POLTORATSKIY, N. I.; FOMIN, G. S.; YAKUTOVICH, M. V.

"Fabrication of large Gabarit makes from refractory carbides."

paper submitted but not presented at Intl Powder Metallurgy Conf, New York City,
14-17 June 1965.

IGNAT'YEV, B. G.; POLTORATSKIY, N. I.; MITROFANOV, V. I.; KOTEL'NIKOV, R. B.;
BASHLYKOV, S. N.

"Vacuum reduction, hot pressing and some properties of uranium bicarbides."

paper submitted but not presented at Intl Powder Metallurgy Conf, New York City,
14-17 June 1965.

POLTORATSKIY, R.P., podpolkovnik meditsinskoy sluzhby (Kiyev)

Diencephalovegetative disorders following closed cerebral trauma.
Vrach. delo no.1:65-68 Ja '62. (MIRA 15:2)
(DIENCEPHALON__DISEASES) (BRAIN__WOUNDS AND INJURIES)

POLTORATSKIY, Viktor Vasil'yevich; KONDYUKOVA, P.D., red.; POPOV,
~~N.D., tekhn. red.~~

[Man and soil]Chelovek i zemlia. Moskva, Izd-vo
"Sovetskaya Rossiya," 1963. 111 p. (MIRA 16:3)
(Meshchera---Collective farms)

81635

S/181/60/002/06/23/050
B006/B056

24.7600

AUTHORS: Subashiyev, V. K., Poltinnikov, S. A.

TITLE: Determination of the Mobility and Concentration of Carriers
in the Surface Layer of a Semiconductor

PERIODICAL: Fizika tverdogo tela, 1960, Vol. 2, No. 6, pp. 1169-1177

TEXT: In the present paper, the authors suggest two methods of investigating the surface concentration and mobility of the carriers in the skin layer of a semiconductor with p-n junction produced by diffusion. Both methods are based upon measuring conductivity and the Hall effect; when using the former method, it is, however, necessary to know the connection between mobility and concentration of the carriers, and also the law of the depth distribution of impurity atoms. In the second method, the Hall effect and the conductivity before and after the removal of a very thin surface layer are determined; from the data of measurement the mean mobility in the removed layer $\bar{\mu}$ and the carrier concentration $\bar{n}$ are determined. Plates of p-type silicon single crystals into which antimony was diffused from the gaseous phase, were used for

Card 1/3

81635

Determination of the Mobility and Concentration of Carriers in the Surface Layer of a Semiconductor S/181/60/002/06/23/050
B006/B056

the experimental investigations. The mean resistivity was between 0.8 and 50 ohm.cm. According to the duration, temperature, and pressure of the antimony diffusion, an n-type layer with different parameters was obtained on the sample surface. The experimental arrangement for measuring the resistivity of the n-type layer is shown in Fig. 7, and the measuring technique is briefly described. For the purpose of measuring mobility, a transverse magnetic field was applied to the samples with a constant current passing through, and the Hall electromotive force U occurring was determined, viz., also by means of the experimental arrangement shown in Fig. 7. The results obtained by these measurements are given in Table 1 for six different samples under different diffusion conditions. This table gives the concentration $n(1) = p$, and further U/C , μ_0 and n_0 ; (l is the thickness of the n-type layer, n - electron concentration, p - hole concentration in the initial p-type silicon, and μ - mobility). The results obtained by the second method briefly described in the following, which were obtained on the sample denoted in Table 1 with 206M1 (20bI1) are given in Table 2.

Card 2/3

Determination of the Mobility and Concentration
of Carriers in the Surface Layer of a Semi-
conductor

81635

S/181/60/002/06/23/050
B006/B056

There are 7 figures, 2 tables, and 5 references: 3 Soviet and
2 American.

ASSOCIATION: Institut poluprovodnikov AN SSSR, Leningrad
(Institute of Semiconductors of the AS USSR, Leningrad)

SUBMITTED: September 30, 1959

Card 3/3

X

POLTORAUS, Ye.V., inzh.

Vibration damping in some plastics. Sbor. nauch. trud. RIIZHT
no.40:62-74 '63. (MIRA 18:3)

POLUBARINOVA-KOCHINA, P.Ya. (Novosibirsk)

Yield of a well in an initial flow with lightly permeable
layers. Izv.AN SSSR.Otd.tekh.nauk.Mekh.i mashinostr. no.3:
155-156 My-Je '60. (MIRA 13:6)

1. Institut gidrodinamiki Sibirskogo otdeleniya AN SSSR.
(Water, Underground)

ARIFOV, U. A., akademik; AYUKHANOV, A. Kh.; SHUSTROV, V. A.; KHASANOV,
R. M.; POLTORATSKIY, V. I.

Cathode sputtering of tungsten by potassium ions. Dokl. AN
SSSR 155 no. 2:306-308 Mr '64. (MIRA 17:5)

1. Fiziko-tehnicheskii institut AN UzSSSR.
2. AN UzSSSR (for Arifov)

ACCESSION NO: AP3000223

S/0166/63/000/002/0065/0069

AUTHORS: Shustrov, V. A.; Poltoratskiy, V. I.; Ayukhanov, A. Kh.

TITLE: On the role of barrier formation in the cathode sputtering process

SOURCE: AN UzSSR. Izv. Seriya fiziko-matem. nauk, no. 2, 1963, 65-69

TOPIC TAGS: continuous sputtering, tungsten target, ion source, surface ionization, negative ion

ABSTRACT: An experiment has been performed to compare qualitatively two processes: continuous sputtering of material and knocking-out target material forming a chemical compound with the adsorbed substances. The experiment was done in a 10^{-7} mm Hg vacuum, using a heated tungsten target and an Na and K ion source of 1 to $10 \mu \text{ a/cm}^2$ density. The latter was obtained by means of surface ionization over an incandescent tungsten wire. The sputtering product was accumulated on a collector made of 0.5 mm nickel plates. Experiments were done in three steps. First the tungsten target was kept cool and the sodium ion beam was turned on at 1600 ev energies with the collector potential V at zero value. Next V was set at -140 v, followed by raising the target temperature to 1160K. A graph of cathode sputtering

Card 1/2

ACCESSION NO: AP3000223

coefficient versus collector potential shows that the greater part of the knocked-out negative ions possesses an energy of 20 ev. For $V \leq -140$ v the collector contains only neutral particles. Under potassium ion bombardment, a noticeable amount of negative tungsten-containing compounds is observed in the sputtering products. Orig. art. has: 4 figures and 2 formulas.

ASSOCIATION: Fiziko-tehnicheskii institut AN UzSSR (Physical-Technical Institute AN UzSSR)

SUBMITTED: 08Jan63

DATE ACQ: 12Jun63

ENCL: 00

SUB CODE: PH

NO REF SOV: 006

OTHER: 004

Card 2/2

MONASTYRSKIY, M.D., inzh.. Prinimali uchastiye: FRANK, G.A., inzh.;
FOSS, V.A., inzh.; KALUZHSKIY, M.Ye., inzh.; NAYDENOV, A.P.,
inzh.; POLUBNEVA, V.I., inzh., red.

[Large-panel house built of foamed cinder concrete hardened
without using autoclaves; practices of the "Bazstroi" Sverdlovsk
sovnakhoz] Krupno-panel'nyi dom iz neavtoklavnogo zolopenobetona;
opyt tresta "Bazstroi" Sverdlovskogo sovnarkhoza. Moskva, 1959.
15 p. (MIRA 13:6)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut organi-
zatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu.
Byuro tekhnicheskoy informatsii. 2. Upravlyayushchiy trestom
"Bazstroy" Sverdlovskogo sovnarkhoza (for Monastyrskiy). 3. Na-
chal'nik tsentral'noy laboratorii tresta "Bazstroy" (for Frank).
4. Nachal'nik otdela proizvodstvennykh predpriyatiy tresta "Baz-
stroy" (for Foss). 5. Nachal'nik proizvodstvennogo otdela tresta
"Bazstroy" (for Kaluzhskiy). 6. Glavnyy tekhnolog tresta "Baz-
stroy" (for Naydenov).

(Sverdlovsk Province--Apartment houses) (Lightweight concrete)

1ST AND 2ND ORDER										3RD AND 4TH ORDER									
PROCESSES AND PROPERTIES INDEX																			
3798. Overvoltage of iodine in fused electrolytes. N. Kurpitschell and O. Potterschnig. <i>Acta Physicochimica</i>, 6. 2. pp. 278-279, 1957. <i>In German</i>.—The overvoltage of iodine was investigated as a function of the current strength, and the AgI and LiI content of the fused electrolytes. The electrolytes employed were fused AgCl and AgI; and LiI and LiCl. It was shown that in the case of these electrolytes, the overvoltage was independent of the composition of the electrolyte, within the limits of accuracy of the method. F. J. B.																			
ASB-55A METALLURGICAL LITERATURE CLASSIFICATION																			
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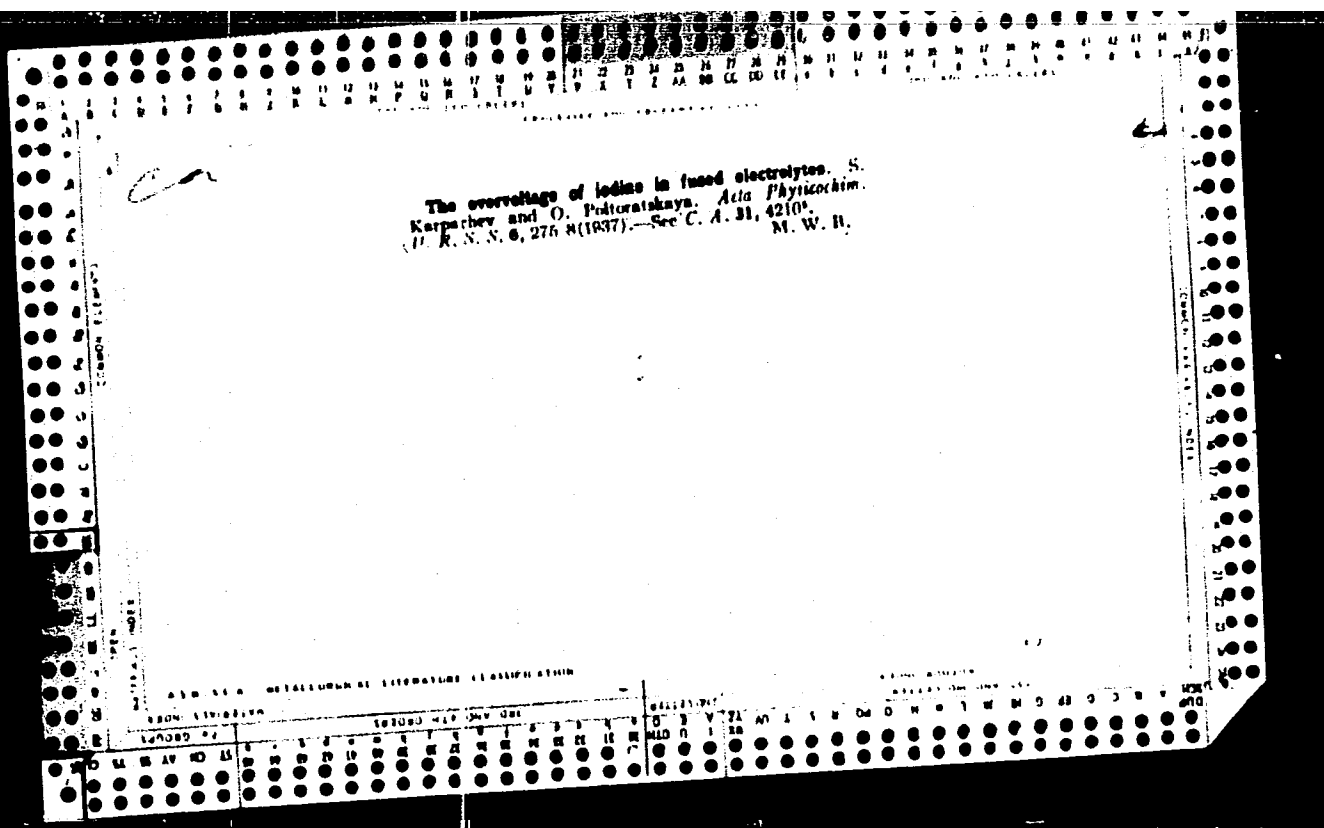
COMMON ELEMENTS		PROCESSES AND PROPERTIES INDEX		COMMON ELEMENTS	
COMMON ELEMENTS		PROCESSES AND PROPERTIES INDEX		COMMON ELEMENTS	
BCL		Iodine overpotential in molten electrolytes. S. KARPATONOV and O. POKORATSKAJA (Acta Physicochim. U.S.S.R., 1967, 3, 875-878).—The I overpotential at a Pt electrode in molten AgI + AgCl and in LiI + LiCl has been measured at various c.d. Within the limits of error, the overpotential is independent of the composition of the melt. J. W. S.		17-1	
ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION					
REGIONAL SYMBOLISM					
REGIONAL SYMBOLISM					

11

CP

Overvoltage of iodine in molten electrolytes. S. Karpachov and O. Poltoranskaya. *J. Phys. Chem.* (U. S. S. R.) 6, 147-61 (1937). Data are given on the decompn. potentials of various AgI-AgCl and LiI-LiCl melts. From 100 down to 10% molal percent AgI, the decompn. potential obeys the eq. $E = a - (RT/F) \ln C_{AgI}$. Below 10% AgI, a correction factor for the Cl₂ atm. on the anode must be introduced. The overvoltage is independent of the AgI concn. from 10 to 100%, and depends only on the current intensity. For LiI-LiCl melts also, the overvoltage is independent of LiI concn. from 25 to 100%. P. H. Rathmann

ASSOCIATED METALLURGICAL LITERATURE CLASSIFICATION



Cathode polarization as a function of current density in fused salts. S. Karpuchev and G. Poltonatskaya. *J. Phys. Chem.*, **40**, 761 (1936); *J. Phys. Chem.*, **CU**, **S. R.** **6**, 966 (1935). A C cathode immersed in fused PbCl_2 or NaCl is more pos. than an auxiliary electrode

of the corresponding metal at low c. d. The p. d. disappears at an intermediate c. d. and reverses sign at higher c. d. The region of pos. potential is explained by diffusion of dissolved metal from the cathode. Parascott of the melt with metal suppresses this part of the potential c. d. curve. In the neg. region the potential is expressed by $E \approx a - RT/2F \ln(c, d.)$. This relation is attributed to the slow rate of condensation of metal atoms in the melt.

L. W. Elder

J. W. Fletcher

LITVINENKO, Yevgeniy Yevstaf'yevich [Lytvynenko, IE.IE.]; YAKOVENKO, O.Y.
[IAKOVENKO, O.I.], nauchnyy red.; POLTORATSKAYA, Ye. [Poltorats'ka, E.],
red.; BEREZOVSKIY, N. [Beresovs'kyl, N.], tekhn.red.

[Production of local building materials for rural construction]
Vyrobnystatvo mistsevykh budivel'nykh materialiv dlia sil'skoho
budivnytstva. Vyd.3., dop. i perer. Kyiv, Derzh.vyd-vo lit-ry
z budivnytstva i arkhitektury, 1960. 386 p. (MIRA 13:10)
(Ukraine--Building materials)

POLTORATSKIY, A.

Gogol', Nikolay Vasil'yevich, 1809-1852

Today, April 19th ("Inspector General"), Mol. kolkh, No. 3, 1952.

Monthly List of Russian Accessions, Library of Congress May 1952 UNCLASSIFIED.

POLTORATSKIY, A.I.

POLTORATSKIY, A.I. (Kiyev); KHALEMSKIY, N.A. (Kiyev).

The Soviet Ukraine is flourishing. Nauka i zhizn' 24 no.10:2-7 0 '57.
(MIRA 10:11)

1. Glavnyy redaktor zhurnala "Vitchizna" (for Poltoratskiy).
(Ukraine--Economic conditions)

25-10-2/41

AUTHOR: Poltoratskiy, A. I., Chief editor of the journal "Vitchizna"
Khalemskiy, N. A., (Kiyev)

TITLE: The Prosperity of the Soviet Ukraine (Tsvetet Sovetskaya
Ukraina)

PERIODICAL: Nauka i Zhizn', 1957, # 10, pp 2-7 (USSR)

ABSTRACT: The Ukrainian SSR is a most highly industrialized but at
the same time an agricultural country; it is in possession
of huge natural resources and occupies a leading position in
the scientific, technical and educational field. The Ukraine
occupies the fourth place in the world as far as the output
of coal is concerned and the third place with regard to
pig iron. About one fifth of the entire production of the
USSR comes from the Ukrainian SSR. In 1956, for instance,
the Ukraine supplied 48% of the all-union output of pig
iron, almost 38% of steel, 56% of iron ores and 32% of coal.
The production of the entire industry of the Ukraine in-
creased by 18 times compared with 1913.

Card 1/4

Hydro-electric power plants have been built on the Dnepr
river, the biggest of them being the Kakhovka plant. The

The Prosperity of the Soviet Ukraine

25-10-2/41

Kremenchug and the Dneprodzerzhinsk hydro-electric power plants are under construction and the construction of the Kanev and the Kiyev power stations will soon follow. About 36.6% of the electric power generated in the Ukraine comes from the thermal power plants of the Donbas district.

There are now 11 economic districts in the Ukraine, each district is specialized in certain industrial branches. The Kherson district, for example, concentrates on ship-building, construction of gas turbines, and textiles and there are good prospects for opening up a ferrous metallurgical industry. The Dnepropetrovsk Factory for Metal Constructions (Dnepropetrovskiy zavod metallokonstruktsiy) is well known all over the world. A member of this factory invented a marking stand for the production of blast furnace parts.

In the field of agriculture, efforts are being made to catch up with the USA in the production of milk, meat and butter by 1960. In 1956 the area used for growing corn was increased by 4.2 times.

There are 17 scientific research institutes in the Ukrainian Republic and agricultural specialists are trained

Card 2/4

The Prosperity of the Soviet Ukraine

25-10-2/41

in 20 higher schools. A member of the Ukrainian Institute for Electric Welding imeni Ye. O. Paton, G.Z. Voloshkevich, elaborated a new method for welding cylinders of hydraulic presses. The Ukrainian Academy of Sciences comprises 80 members and 99 member-correspondents.

Some of the outstanding work performed by members of the Ukrainian Academy of Sciences is as follows: P. A. Tutkov - skiy and N. I. Lebedev, studied the stratification of carboniferous deposits in the Donets basin; D. N. Sobolev and V. I. Luchatskiy dealt with industrial raw material resources; N. P. Semenenko worked on the structure of ore deposits. The research work done by the present president of the Ukrainian Academy of Sciences, A. V. Palladin, deals with the biochemistry of the cerebrum and muscular activity. The achievements of the Ukrainian medical scientists A. A. Bogomolets, N. D. Strazhesko, V. P. Filatov and A. P. Krymov are known all over the world. A new technological method for the production of steel was developed by the various institutes of the Ukrainian Academy of Sciences and the pre-

Card 3/4

The Prosperity of the Soviet Ukraine

25-10-2/41

liminary studies for the creation of an electronic computer were made here as well. About three quarters of the population were illiterate before the Revolution took place, now the Ukrainian SSR has produced 32 thousand scientists. There are 6 photographs.

AVAILABLE: Library of Congress

Card 4/4

SHCHEKIN, Rostislav Vladimirovich, dotsent, kand.tekhn.nauk; KORENEVSKIY, Sergey Mikhaylovich, dotsent, kand.tekhn.nauk; BEM, Georgiy Yevgen'yevich, dotsent; TSYGANENKO, Gleb Nikolayevich, inzh.; ARTYUSHENKO, Mikhail Alipiyevich, inzh.; LOBAYEV, B.N., prof., doktor tekhn.nauk, red.; POLTORATSKAYA, E., red.; NOSINENKO, A., tekhn.red.

[Reference book on heating and ventilation in residential and public-building construction] Spravochnik po teplosnabzheniyu i ventilatsii v grazhdanskom stroitel'stve. Kiev, Gos.izd-vo lit-ry po stroit. i arkhitekt., 1959. 846 p. (MIRA 13:4)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury USSR (for Lobayev).
(Ventilation) (Heating)

1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
PROCESSES AND PROPERTIES INDEX																																																			
18 Solid oxygen absorbent. F. A. Poltoratskii. Russ. Z. 44,821, Oct. 31, 1935. Iron filings are immersed in a satd. soln. of CuSO_4 and the Cu-plated Fe filings obtained are mixed with powd. NH_4Cl.																																																			
ASB. 11 A METALLURGICAL LITERATURE CLASSIFICATION																																																			

POLTORATSKIY, F.A., inzh.

Nitrogen protection of transformers at the Moscow Transformer Plant.
(MIRA 11:11)
Vest.elektroprom. 29 no.11:65-67 N '58.
(Electric transformers)

SOV/110-58-11-20/28

AUTHOR: Poltoratskiy, F.A. (Engineer).

TITLE: Experience with Oil-conservation by Nitrogen in
Transformers at the Moscow Transformer Works.
(Opyt azotnoy zashchity transformatorov na Moskovskom
transformatornom zavode.)

PERIODICAL: Vestnik Elektromyshlennosti, Nr.11, 1958, pp.65-67,
(USSR).

ABSTRACT: The life of the solid insulation and oil in transformers
can be increased by protecting them from oxidation. As
some 60-70,000 tons of transformer oil are regenerated
annually, the problem of preventing oxidation is of
considerable importance. It is accordingly proposed to
use a layer of nitrogen over the surface of the oil in
the transformer. In 1949 the Moscow Transformer Works
made the first delivery of hermetically-sealed transformers
without conservators and with a nitrogen atmosphere above
the oil. A further batch was made in 1950. The method
of removing the air from these transformers and putting

Card 1/2

SOV/110-58-11-20/28

Experience with Oil-conservation by Nitrogen in Transformers at the Moscow Transformer Works.

in the nitrogen is described. In 1957 the performance of the transformers was investigated: it was found that they had operated for six or seven years without being opened or topped up, and a slight excess pressure still remained in the transformers. The electric strength of the oil was high and the neutralisation value similar to that of new oil. In addition to preventing deterioration of the oil, the use of a nitrogen atmosphere greatly retards deterioration of solid insulation, particularly at high temperatures. Results were less satisfactory when there was nitrogen only in the conservator and the oil had not been previously de-aerated. The principle of constructing hermetically-sealed transformers should be immediately extended. There is 1 figure.

1. Transformers
2. Insulation (Electric)--Preservation
3. Oil
- Preservation
4. Nitrogen--Chemical effects

Card 2/2

POLTORATSKIY, G.M.

Dilatometric calcrimeter. Zhur. prikl. khim. 36 no.9:2091-
2093 D '63. (MIRA 17:1)

MISHCHENKO, K.P.; POLTORATSKIY, G.M.

Pressure of benzene vapors at the range of temperatures from
11 to 40°C. Zhur.prikl.khim. 35 no.7:1638-1640 J1 '62.
(MIRA 15:8)

(Benzene) (Vapor pressure)

POLTORATS'KYI, Oleksiy Ivanovich

[From east to west; traveler impressions: Czechoslovakia,
Democratic Germany, France] Zi skhodu na zakhid; podorozhni
vrazhennia: Chekhoslovachchyna, Demokratychna Nimechchyna,
Frantsiia. Kyiv, Radians'kyi pys'mennyk, 1959. 169 p.
(MIRA 16:9)

(Czechoslovakia--Description and travel)
(Germany, East--Description and travel)
(France--Description and travel)

POLTORATSKIY, R.P., podpolkovnik med.sluzhby

Trauma of the nervous system caused by electric current. Sbor.
nauch.trud.Kiev.chruezh.voen.gosp. no.4:316-321 '62. (MIRA 16:5)
(NERVOUS SYSTEM--WOUNDS AND INJURIES)
(ELECTRICITY, INJURIES FROM)

UTEYEV, A.F., polkovnik med.sluzhby; POLTORATSKIY, R.P., podpolkovnik
med.sluzhby; GUTOVICH, S.P., vrach

Consequences of a closed trauma of the brain; a preliminary
report. Sbor.nauch.trud.Kiev.okrzh.voen.gosp. no.4:357-360
'62. (MIRA 16:5)

(BRAIN—WOUNDS AND INJURIES)

POLTORATSKIY, R.P., podpolkovnik meditsinskoy sluzhby

Clinical aspects of fat embolism of the brain vessels. Vrach.delo
no.1:87 '60. (MIRA 13:6)

1. Okruzhnoy voyenny gosital' Kiyevskogo voyennogo okruga.
(BRAIN--DISEASES) (EMBOLISM)

POLTORATSKIY, R.P., podpolkovnik med. sluzhby (Kiyev)

Neurological characteristics of the 1957 influenza pandemic [with
summary in English]. Vrach. delo no.1:31-35 '59. (MIRA 12:4)
(INFLUENZA) (NERVOUS SYSTEM--DISEASES)

SHUSTROV, V.A.; POLTORATSKIY, V.I.; AYUKHANOV, A.Kh.

Role of contamination in cathode sputtering. Izv. AN Uz. SSR.
Ser. fiz.-mat. nauk 7 no.2:65-69 '63. (MIRA 16:6)

1. Fiziko-tehnicheskii institut AN UzSSR.
(Sputtering (Physics))

POLTORYGIN, V.K.; RUMYANTSEV, A.F., otv.red.; ROCHKO, V.N., red.

[Economics of socialist industrial enterprises; visual aids]
Ekonomika sotsialisticheskikh promyshlennykh predpriistii;
nagliadnye posobiia. Moskva, Gospolitizdat, 1960. 20 plates.
(MIRA 13:12)

(Industrial statistics--Audio-visual aids)

POL'TOV, A.Yu., inzh.

Unit for automatic gas cutting of heat exchanger bottoms. Svar.
proizv. no.2:39-40 F '64. (MIRA 18:1)

1. Tallinskiy mashinostroitel'nyy zavod.

POLTYREV

USSR/Human and Animal Physiology - Digestion.

T-7

Abs Jour : Ref Zhur - Biol., No 7, 1958, 31843

Author : Poltyrev, S.S.

Inst : -

Title : Teaching of I.P.Pavlov on the Activity of Organs of the Intestines and Its Clinical Significance.

Orig Pub : Tr. Ivanovsk. obl. nauchno-prakt. konferentsii po problemam patol. i kliniki bolezney organiv pishchevareniya i pecheni. Vyp. I. Ivanovo, 1957, 5-10.

Abstract : No abstract.

Card 1/1

TER-GRIGOR'YAN, A.I., inzh.; AVETISYAN, A.A., inzh.; GASAN-DZHALALOV, A.B., inzh.; GUKHMAN, M.I., inzh. [deceased]; DAVTYAN, S.Kh., inzh.; DADASHYEV, B.B., kand.tekhn.nauk [deceased]; DANIELYANTS, A.A., inzh.; DEDUSENKO, G.Ye., kand.tekhn.nauk; IOANESYAN, R.A., inzh.; KARASIK, G.Ye., inzh.; KULIYEV, I.P., kand.tekhn.nauk; KULI-ZADE, K.H., kand.tekhn.nauk; LANGLEBEN, M.L., kand.tekhn.nauk; MADERA, R.S., inzh. [deceased]; MIKHAYLOV, V.R., inzh.; MURADOV, I.M., inzh.; POLYAKOV, Z.D., inzh.; PROTASOV, G.N., kand.tekhn.nauk; SAROYAN, A.Ye., kand.tekhn.nauk; SEID-RZA, M.K., kand.tekhn.nauk; TARANKOV, V.V., inzh.; FRIDMAN, M.Ye., inzh.; SHNEYDEROV, M.R., kand.tekhn.nauk; YALSHNIKOVA, Ye.A., kand.tekhn.nauk; SHTEYN-GEL', A.S., red.izd-va

[Driller's handbook] Spravochnik burovogo mastersa. Izd.2., ispr. 1 dop. Baku, Azerbaidzhanskoe gos.izd-vo neft.i nauchno-tekhn.lit-ry. 1960. 783 p. (Oil well drilling) (MIRA 13:5)

KORSHAK, V.V.; POLYAKOVA, A.M.; SUCHKOVA, M.D.

Synthesis and study of the polymerization of vinyl compounds
of lead. Vysokom.sped. 2 no.1:13-19 Ja '60.
(MIRA 13:5)

1. Institut elementoorganicheskikh soedineniy AN SSSR.
(Lead compounds) (Polymers)

S/179/60/000/03/015/039
EO81/E441

AUTHORS: Lyakhov, G.M. and Polyakova, N.I. (Moscow)

TITLE: Propagation and Interaction of Compression and Rarefaction Waves in Elasto-Plastic Media

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Mekhanika i mashinostroyeniye, 1960, Nr 3, pp 99-108 (USSR)

ABSTRACT: The paper is a continuation of previous work (Ref 8). A medium is considered in which loading and unloading take place elastically up to some stress σ_s , but for stresses $\sigma > \sigma_s$ the law is different (Fig 1). If the stress $\sigma_r > \sigma_s$ there is a residual deformation ϵ , the magnitude of which depends on the maximum stress σ_r attained in compression. The theory is developed in terms of the variables given in the first equation, p 99: where V is the volume and ρ the density. The Lagrangian system of coordinates h, t (h = mass of body included between the initial section and the section under discussion, t = time) is used as in Ref 8. Analysis of the propagation of plane waves shows that if the pressure in the initial section ($h = 0$) rises

Card 1/3

S/179/60/000/03/015/039
E081/E441

Propagation and Interaction of Compression and Rarefaction Waves
in Elasto-Plastic Media

instantaneously to $p_m(p_k > p_m > p_s)$ and then falls according to a given law $p = p(t)$. the waves are propagated on two fronts (Fig 2). The first, corresponding to the jump in pressure from $p_0 = 0$ to p_s , moves with velocity A_0 and the second (denoted by S), corresponding to the jump in pressure from p_s to the maximum, moves with velocity A_1 . The propagation in the regions numbered 1 to 7 in Fig 2 is considered in detail and the change of pressure with time in certain sections of the medium is plotted in Fig 3. The reflection and refraction of waves from a boundary T (Fig 4) is considered and the conditions in the regions A, B, C and 1-9 (Fig 4) is analysed in detail. The relationship $p = p(h)$ for the times denoted by t_1 and t_2 (Fig 4) is shown in Fig 5. Thanks are expressed to B.A.Olisov, Kh.A.Rakhmatulin and L.I.Sedov for discussion of results. There are

Card 2/3

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6 figures and 8 references, 6 of which are Soviet and
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